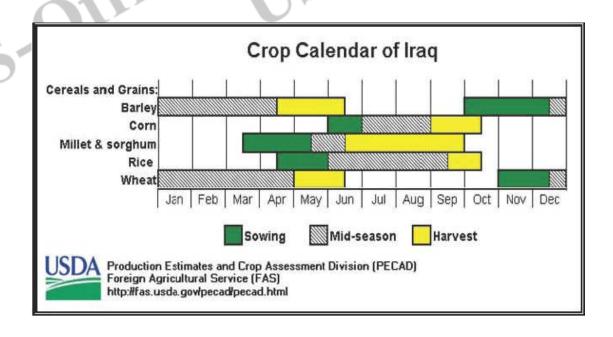
## FAS – Office of Global Analysis (OGA) United States Department of Agriculture (USDA) International Operational Agriculture Monitoring Program



## June Report - Week 4

June 27<sup>th</sup>, 2008

- 1. Production for MY 2008/09 winter grains is forecasted to be lower than the previous year. Production decreases are related to late rainfall during the start of season combined with below normal seasonal precipitation. The predominantly rainfed northern governorates were impacted the most with lower production also expected in central and southern governorates.
- 2. High resolution Quickbird imagery acquired on April 9th, 2008 and May 2nd, 2008 were retrieved from the NGA WARP database. Mulit-temporal NDVI was compared to assess changes in crop abundance. A change detection analysis showed residual signs of winter crop harvest with significant areas of increase in close proximity to water sources; the increase likely corresponds with the summer crop season which requires supplemental irrigation (Figure 1).
- 3. NDVI maps derived from high resolution Quickbird imagery acquired over AOI 14, At Ta'min on May 29th, 2008 and June 25th, 2008 showed signs of decreasing crop abundance; the decrease is associated with crop harvest (Figure 2). Further investigation revealed significant areas of increase that are likely associated with the summer crop season. Image subsets show fields with clear signs of harvest and green-up (Figure 3). The image scene also revealed significant green-up in close proximity to households. This increase may likely correspond with "kitchen gardens," which has shown to improve individual household food security.



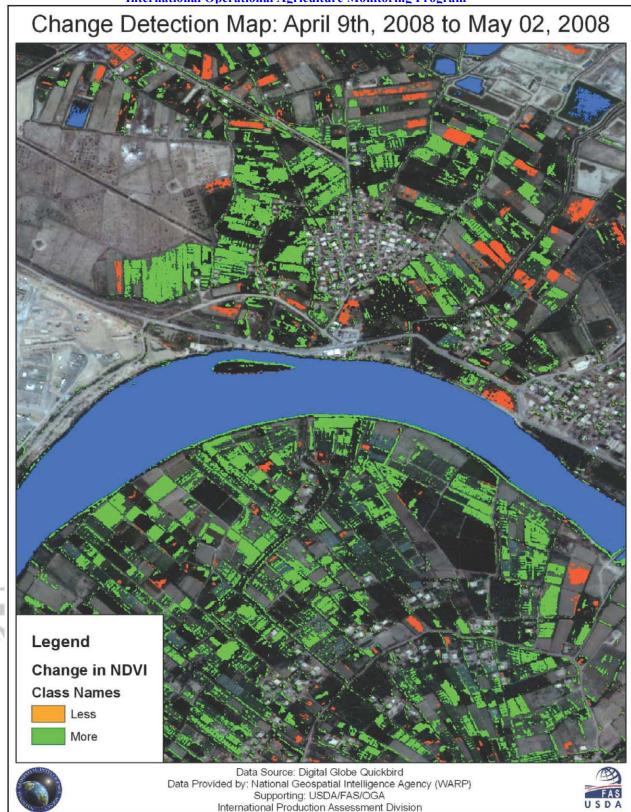


Figure 1: Increases in NDVI from multi-date imagery correspond with summer crop.

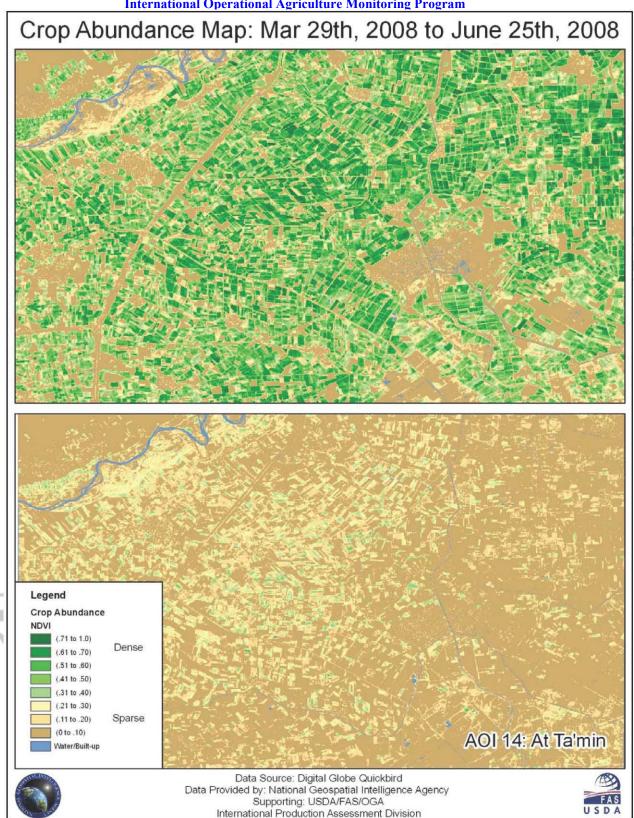


Figure 2: Change in crop abundance from March 29th to June 25th, AOI 14 (At Ta'min).

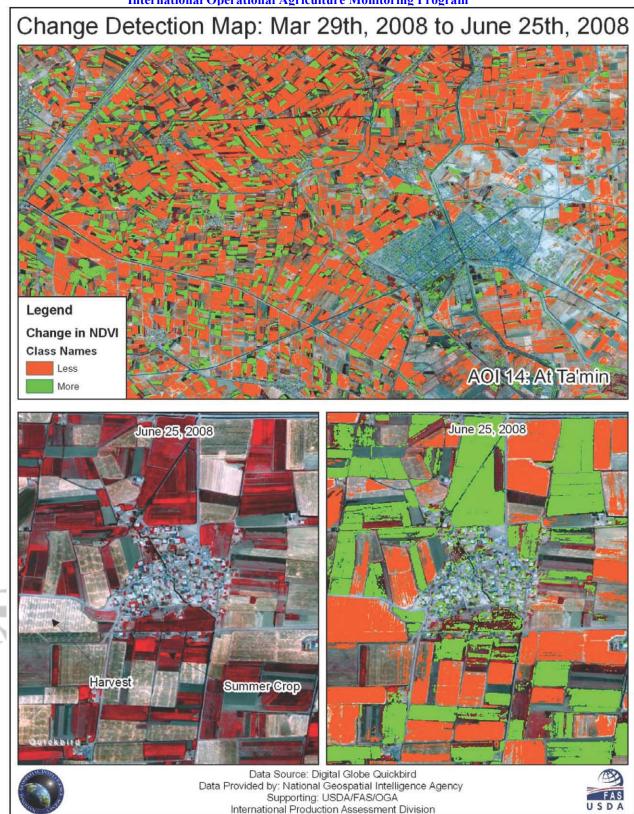


Figure 3: Harvest and summer crop emergence in At Ta'min (AOI 14).